

CLAIMS:

1. A control device for an input clutch of a work vehicle, which is applied to a work vehicle in which a driving force of an engine is transmitted to drive wheels through a traveling power train and also transmitted to a hydraulic pump for a work machine, comprising:

an input clutch which is disposed between the engine and a transmission on a power transmission path of the traveling power train of the engine;

a brake means for decelerating the work vehicle;

a brake control valve which operates to increase a braking force of the brake means depending on a valve position;

a brake operation means which is disposed to operate the brake control valve;

a draining oil passage which is an oil passage branched from an oil passage for supplying a pressure oil to the input clutch and communicated with a tank; and

a pressure reducing valve which is disposed in the draining oil passage and operates to increase the pressure oil flowing through the draining oil passage according to a valve position and to decrease a clutch pressure of the input clutch, wherein:

the brake operation means is mechanically coupled with a valve operating member of the pressure reducing valve, and the valve operating member of the pressure reducing valve is mechanically coupled with a valve operating member of the brake control valve.

2. The control device for an input clutch of a work vehicle according to claim 1, wherein the valve operating member of the pressure reducing valve is coupled with the valve operating member of the brake control valve through a spring.

3. A control device for an input clutch of a work vehicle, which is applied to a work vehicle in which a driving force of an engine is transmitted to drive wheels through a traveling power train and also transmitted to a hydraulic pump for a work machine,

comprising:

an input clutch which is disposed between the engine and a transmission on a power transmission path of a traveling power train of the engine;

a brake means for decelerating the work vehicle;

a brake control valve which operates to increase a braking force of the brake means depending on a valve position;

a brake operation means which is disposed to operate the brake control valve;

a draining oil passage which is an oil passage branched from an oil passage for supplying a pressure oil to the input clutch and communicated with a tank; and

a pressure reducing valve which is disposed in the draining oil passage and operates to increase the pressure oil flowing through the draining oil passage according to a valve position and to decrease a clutch pressure of the input clutch, wherein:

a valve operating member of the pressure reducing valve and a valve operating member of the brake control valve are mechanically coupled by a link mechanism, and the brake operation means is mechanically coupled with the link mechanism.